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Canadian Contract Record

A Weekly Journal of Advance Information and Public Works.

Vol. 1.

Toronto, Canada, March 29, 1890.

No. 6

THE CANADIAN CONTRACT RECORD.

A Weekly Journal of Advance Information and Public Works.

PUBLISHED EVERY SATURDAY

As an Intermediate Edition of the "Canadian Architect and Builder."

Subscription Price of "Canadian Architect and Builder" (including "Canadian Contract Record") \$2 per annum, payable in advance.

C. H. MORTIMER, Publisher.

14 KING ST. WEST.

TORONTO, CANADA.

The purpose of this journal is to supply Contractors, Manufacturers and Dealers throughout Canada, with advance information regarding contracts open to tender, and to furnish Architects, Municipal and other Corporations with a direct medium of communication with Contractors.

Information from any part of the Dominion regarding contracts open to tender will be gratefully received.

ADVERTISING RATES ON APPLICATION.

At its Convention held in Toronto, Nov. 20 and 21, 1889, the Ontario Association of Architects signified its approval of the CANADIAN CONTRACT RECORD, and pledged its members to use this journal as their medium of communication with contractors with respect to advertisements for Tenglers.

The publisher of the "Canadian Contract Record" desires to ensure the regular and prompt delivery of this Journal to every ubscriber, and requests that any cause of complaint in this particular be reported at once to the office of publication. Subscribers who may change their address should also give prompt notice of same, and in doing so, should give both old and new address.

USEFUL HINTS.

STOPPING FOR WALLS.—Mix fine sifted lime and plaster of Paris. When applied and dry, rub down with glass or sand paper, spread over a level board, then dust for sizing.

The Romans well understood the necessity of protecting from dust the materials with which they made their mortar; its importance is not sufficiently realized by the builders of to-day, as workmen may often be seen mixing mortar and concrete from materials that have been emptied in piles on a dusty street.

WATERPROOF WHITEWASH.—A waterproof whitewash is in use in Germany. The powder from 3 parts silicious rock (quartz), 3 parts broken marble and sandstone, 2 parts of burned porçelain clay and 2 parts freshly slacked lime, still warm, are mixed together. This forms a silicate if often wetted and becomes after a while almost like stone. It is applied quite quickly to a wall or other surface, and allowed to dry one day. The next day it is covered frequently with water, which makes it waterproof.

To Test Japan.—Mix some of it with oil. If it curdles, don't buy it. Second, grind a portion of it with turps and dry color and spread a coat of it upon a properly prepared surface, and look at it forty-eight hours later through a magnifying glass; if you find the paint full of small cracks, discard that brand of japan. If no cracks can be discovered, put on a coat of rubbing-varnish which you know to be good. If the varnish pits, coats, or cuts up any other caper known to the trade, don't use any more of that japan. Third, put a reasonable amount in oil-paint which you know to be good, and if the paint dries tacky, that japan is not fit to use anywhere.

<u> </u>	ALENDAR.	
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CONTRACTO

CONTRACTS OPEN.

PAKENHAM, ONT.—A new Methodist church is to be erected here. BOWMANVILLE, ONT.—The Methodist church is to be enlarged.

VANCOUVER, B. C.-A sugar refinery is to be built here this spring

TWEED, ONT. - Mr. James Murphy has donated a site for a new Separate school.

PICTON, UNI. - The Prince Edward Agricultural Society will probably erect new buildings.

BROCKVILL, ONT. - A central fire station is to be erected here as soon as a site can be a freed upon.

HALIFAX, N. S.—The city's approval has been given to plans for a new ferry station to be erected on the Halifax side.

NAPANEE, ONT.—The overhead bridge on the Napanoe and Hay Bay road will be torn down and replaced by an iron one by the G T. R. Co.

TRURO, N. S —The Dominion Government is being urged to construct a carriage subway beneath the Intercolonial milway tracks near the depot.

ST. THOMAS, ONT.—The citizens will be asked on April 17th to vote upon a by-law authorizing the expenditure of \$125,000 for the construction of a water works system.

WINDSOR, ONT. - A Detroit syndicate has purchased 146 acres on the river front. Their object is believed to be the construction of a bridge or tunnel across the Detroit river.

SMITH 8 FALLS, ONT.—The organization of a company to construct the Kingston and Smith's Falls railway is being proceeded with, and work is expected to commence at an early date.

HAMILTON, ONT.—It is proposed to divide St. Mark's parish, and erect a new church on Locke street.—The City Engineer recommends the construction of sewers on Oxford and Locomotive streets. The City Engineer recommends the construction of an 18 inch pipe sewer on Main street west

ILEMBURG. ONT.—This town will probably give a bonus of \$25,000 towards the construction of the Southern Central railway. It is proposed to construct a line from Port Burwell to Ingersoll via Tilsonburg as soon as the arrangements can be made, and ultimately to extend the line via Guelph and Barrie to Sudbury.

WINNIPEG, MAN.—The Legislature has granted \$7,500 to assist the project of an annual exhibition. The railways will also assist and the work of erecting buildings will receive immediate consideration. The Baptists propose to erect a tabernacle at an estimated cost of \$30,000. Mr. Allan, one of the Directors of the Winnipeg & Southeastern Railway, states that fifty miles of line will be built and equipped this year.

BRANTFORD, ONT.—The citizens will, on the 25th of April, vote on a by-law to authorize the expenditure of \$163,000 for improvements. Of this sum \$80,000 is for the construction of a sewerage system, \$40,000 for a new school, \$30,000 for the completion of the new water works and connections therewith, and \$13,000 to pay for the erection of a new Police Court building, the Collegiate Institute improvements and the establishment of an electrical fire alarm.

PERTH, ONT.—Mr. Duncan Kippen has prepared plans for the proposed alterations and improvements in the town hall building at this place.

VICTORIA, B. C.—The charter and land grant to the Columbia and Kootenay railway has passed the Legislature. H. Abb. tt, superintendent of the Pacific division of the C. P. R., states that tenders for the construction of the line will be asked for at once and the work will be completed by September next.

KINGSTON, ONT.—A petition will be presented to council for the construction of a sewer on Collingwood and Nelson streets.—A Government architect has been here looking for a suitable site for the proposed new drill shed.—A main sewer will probably be constructed on Charles street from Patrick to Rideau street.—West Po'nt, Wells Island, has been pur chased by Mr. Browning, of the firm of Browning, King & Co., New York, as the site for a fine residence to be erected during the summer.

QUEBEC.—Mr. Mercier has given the Quebec bridge promoters a pledge that the province will pay them \$40,000 a year for ten years.—The Fortress Hotel company has been formally incorporated with a capital stock of \$250,000. The leading promoters are. Timothy Hibbard Dunn, Richard Reid Dobell, George Richard Renfrew, Hon. Thos. McGreevy. Hon. William Bresse, John Breakey, Edouard John Hale, Hon. George Tivine, Nicholas Karly Comiolly, Alphonse Charlebois, James Boswell and Veasey Boswell, all of this city.

MONTREAL, QUE.—There are about 36,000 feet of dead end sewers in this city, and the City Surveyor recommends that the most important of them be connected.—A Toronto syndicate has purchased part of Mr. Trenholme's farm at Blue Bonnets, adjoining the Montreal junction of the Canadian Pacific railway, and intends to open it up at once for building purposes.—It is said to be the intention of the Gas Co. to increase its stock by half a million dollars for the purposes of extending is system.—The council has by resolution signified approval of the passing of an act by the Parliament of Canada authorizing the construction of a general traffic and railway bridge across the St. Lawrence to the City of Montreal, providing the said bridge should not in any way interfere with the navigation of the river, and that the streets of the city be not interfered with without the consent of the council, and that before the work is commenced the plans be submitted to and approved by the Government of Canada.—A meeting will be held shortly to discuss the question of an industrial school for girls.

OTTAWA, ONT .- Representatives of an English syndicate are here prepared to provide capital for the construction of the Hudson Bay railroad. provided the Dominion Government will guarantee the land grant bonds of the company.-\$30,000 has been appropriated to complete the buildings on the experimental farms.—The supplementary estimates just brought down by the Government contain the following sums for public buildings in Ontario. Brampton public buildings, \$6,000; Napance post-office, custom house, etc., to complete, \$5.500; Strathroy post-office, custom house, etc., \$5,000; Trenton public buildings, \$5,500; Lindsay post-office, custom house, etc., \$3,400: Departmental buildings, Ottawa, increased and improved vault accommodation in eastern block for Finance Department, \$45,000; London custom house, to complete. \$1.500; Pembroke post-office. custom house, etc., \$4,000; Stratford post-office, improvements, etc., to complete, \$1,900; St. Thomas post-office and custom house, improvements to heating apparatus, etc., to complete, \$1,100; Government Printing Bureau, \$1,000; Toronto post-office, sanitary works, \$350. The sum of \$860,000 is appropriated for construction work on railways and canals.

TORONTO. ONT.-Plans will be prepared for a residence for the high level pumping station engineer.-Tenders will be asked in our next issue for the annual supplies for the city Water Department.-The Water Department recommend the construction of sewers as follows: Millicent street, east of Dufferin street; Middleton street, Sheridan to Brock; Dora avenue, from St. Helen's avenue; Reynolds avenue, oft Park road; Springhurst avenue, west from Jamison; Turner street, west of Nirgara; Davenport road, to North View terrace; Sunnyside avenue, north from Queen: Smith street, to Pape avenue: Dowling avenue, to Queen: Eastern avenue, to Queen: Symington avenue, Ernest avenue to Wallace avenue; Monterey street, to Dufferin; Fisher street, to Dufferin; Atkins avenue, from Brock; Logan avenue, Gerrard to Withrow; Defoe street, Niagara to Massey.-Tenders will be asked for paving with asphalt Sherbourne street, between King and Queen streets.-The City Engineer has recommended the construction of sewers on Summerhill avenue, Meileville avenue and Hampden avenue, on a lane south of Gerrard street from Ontario to Berkeley street, on Radeliffe avenue. - The construction of a Trinidad asphalt pavement on Melinda street is recommended.—Building permits have been granted as follows: Thomas Best, alterations and additions to building on north side of Adelaide street near Yonge, cost \$4,000; C. R. S. Dinnick, three two-storey and attiebk. clad dwellings, west side Borden street, near Vankoughnet street, cost \$8,420; James Way, three attached two storey bk. fronts, Centre St., cost \$2,400; W. G. Slocum, two prs. two storey bk. dwells., Spadina road, cost \$22,000; Caleb Evans, pr. s. d. two storcy bk. dwells., Markham St., cost \$5,000; R. McGee, four storey bk. warehouse, year 97 Yonge St., cost \$8,500 --Capt. George Williamson is having plans prepared for a new block of stores on the north west corner of College and Ossington avenues.-New tenders will be invited for the block paving of Peter street.

CONTRACTS AWARDED.

CHATHAM, ONT.—Eighteen tenders were received for the construction of a brick carriage factory for Wm. Gray & Sons. The contract has been awarded to Cucksey & Pritchard, at the sum of \$11,000.

HAMILTON, ONT.—The Public Library Board has accepted the tender of Messrs. Stevenson & Poulter for heating, at the price of \$4,457.—The contract for a pavement around the new city hall has been given to Otto E. G. Guelich, of Detroit, who will put down a silical barytic pavement at the price of \$2,564.34. The only other tender received was that of Mr. R. Forsyth, Toronto, whose figures were \$3,975.

MONTREAL, QUE.—Contracts for heating the public buildings at Strathroy, Goderich and Cobourg have been awarded to Garth & Co., of this city.—The Roads Department has recommended acceptance of the following tenders in connection with the paving of Craig street. 3-inch taniarac blocks. Bastien & Valiquette, \$1.23 per square yard, or a total of \$30.750; granite blocks, Robert Forsyth, at \$7.84 per square yard, or a total of \$920; chain stone, straight and curved, Desormeault & Frere, at 65 cents and 25 cents respectively, or a total of \$4,550. Laying—Bastien & Valiquette, wooden blocks, \$1.85; flagstone crossings, \$2 per square yard, curbstones, 30 cents, and street railway tracks, 90 cents per lineal toot, or a total of \$58,950. The contract for stone blocks was given to F. D. Lawrence at \$1.86 per square yard, over Robert Forsyth's tender of \$1.84. Mr. Lawrence was also given the contract for laying, at \$1.89 per square yard.

TORONTO, ONT.— The Water Department has accepted the tender of the Peterboro' Bridge Co. for extra lengths of 48-inch pipe, and also extra rings at \$8.31 per lineal foot.—The contract for the construction and erection of the stand pipe at the high level pumping station was awarded to the Canadian Bridge Co. of Montreal at \$3,140, on condition that the deposit and sureties are satisfactory.—Mr. John Maloney has been awarded the contract by the city council for supplying stone at \$10.90 a torse, to be delivered in various parts of the city.

ABSTRACT OF TENDERS FOR CEDAR BLOCK PAVEMENT,

Deposit.	\$ c. 275 % 2
Salishary Av. Western limit of present pavement to 190 feet west. Lump sum.	468 88 . 469 88 . 497 88
McPherson Av. Avenue Rd. to Rathnally Av. Lump sum.	\$ C. 1,828 co. 1,823 co. 1,865 co. 2,039 co.
Rathnally Av. Rathnally Crescent to McPherson Av. west. Lump sum.	3,348 co. 3,348 co. 3,333 co. 3,534 co. 3,634 co. 3,634 co. 3,689 co.
McMaster Av. Avenue Rd, to Rathnally Av. Lump sum.	\$ c. 1.747 00 1.797 00 2.039 00 1.893 00
Crawford St. Queen Street to Defoe St. Lump sum.	2,118 % 2,108 % 2,037 % 2,037 % 2,037 % 2,030 %
Widening Dundas St. Queen Street to the bend, Lump sum.	1.707 88 1.393 80 1.303 80 1.3
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The names of the successful tenderers are as follows. McMaster Ave., A. J. Brown; Dundas street, Jas. Rogers, Crawford street, W. H. Cathro, Rathnally Avenue, Van Vlack; McPherson Avenue, Van Vlack; Salisbury Avenue, Jas. Rogers.

Attention has lately been called to the peculiarly corrosive, and consequently destructive, effect of the crossote of wood soot upon chimneys, owing to the fact that the crossote thus formed from the slow combustion of wood contains so large a proportion of pyroligneous vinegar or crude acette acid; this acid being formed in large quantities when the combustion of wood is slow, many quarts, in fact, being condensed in cold weather where a large wood fire is very much checked, only a few hours being required for such condensation. The acid in question dissolves lime readily, carrying it away in solution, and in this manner the morter is frequently entirely removed from the tops of chimneys in the country, new ones suffering in the same way as the old, instances being numerous where the top courses of brick in chimneys only two years old have become entirely without support other than, that afforded by the sand with which the lime was mixed.

ARCHING AND VAULTING

The tendency of any arch to overturn its abutments, or to destroy them by causing the courses to slide over each other, may be counteracted in three ways. 1, the arch may be continued through the abutment until it rests on a solid foundation; 2, by building the abutments so as to form a horizontal arch, the thrust being thrown on the wing walls, which act as buttresses; 3, where neither of these expedients is practicable, by jogging the courses together with bed-dowel joggles, so as to render the whole abutment one solid mass.

Where the wing walls of a bridge are built the pressure of the earth will always have a tendency to fracture them at their junction with the abutments. Equal strength with the same amount of material will be obtained by building a number of longitudinal and cross walls, by which means, the earth being kept from the back of the walls, there is no tendency to failure of this kind.

The ordinary forms of vaults may be classified under three heads, viz., cylindrical, coved, and groined.

A cylindrical vault is simply a semi-circular arch, the ends of which are closed by upright walls. When a vault springs from all the sides of its plan, it is said to be coved. When two cylindrical walls intersect each other, the intersections of the vaulting

surfaces are called groins, and the vault is said to be groined.

In the Roman style of architecture, and in all common vault ing, the vaulting surfaces of the several compartments are portions of a continuous cylindrical surface, and the profile of a groin is simply an oblique section of a semi-cylinder.

Gothic ribbed vaulting is, however, constructed on a totally different principle. It consists of a framework of light stone ribs supporting thin panels, whence this mode of construction has obtained the name of rib and panel vaulting. The curvature of the diagonal ribs or cross springers, and of the intermediate ribs, is not governed in any way by the form of the transverse section of the vault, and in this consists the peculiarity of ribbed vaulting.

Domes and vaults are on a circular plan. The equilibrium of a dome depends on the same conditions as that of a common arch, but with this difference, that, although a dome may give way by the weight of the crown forcing out the haunches, failure by the weight of the haunches squeezing up the crown is impossible, on account of the support the voussoirs of each course receive from each other. - Granie Cutters' Journal.

The Canadian Contractors Hand-Book, 50 cents to Record subscribers,

SEALED TENDERS

FOR HEATING THE NEW

General Hospital at Stratford, Ont.,

Will be received at the architect's office until TUESDAY, APRIL 1ST. Plans and specifications for both steam and hot water systems may be seen at above office. Lowest or any tender not necessarily accepted.

FRED HENRY, Architect, Masonic Temple, London, Ont.

TENDERS

Will be received until 12 o'clock noon on SAT-URDAY, APRIL 5711, for the erection of Two Dwellings and alterations to a third on John Street, near Queen Street.

Plans and specifications can be seen at the office of

WHITEHEAD & FAWELL.

S. E. Corner Queen and Yonge Sts., Toronto.



TO PLUMBERS.

Tenders addressed to the undersigned will be received through registered post up to noon on

Thursday, the 3rd day of April next,

For constructing Water Closets in several city

For constructing Water Closets in several city buildings.
Specifications may be seen and all further information obtained upon application at the office of the City Commissioner. City Hall.
Tenders must be accompanied by a cash deposit or a marked cheque, payable to the order of the City Treasurer, for five per cent. on the amount thereof.
Should any of the parties whose tenders are

Should any of the parties whose tenders are accepted fail to give satisfactory security for the due performance of the work their deposits will

be forfeited.

The deposits of unsuccessful tenderers will be returned.

The names of two responsible sureties must

accompany each and every tender.

The lowest or any tender not necessarily accepted.

> FRANK MOSES. Chairman Committee on Property.

City Clerk's Office, Toronto, March 25, 1890.

FOR SALE.

200,000 Bricks and One Brick and Tile Matured by Close & Son, of Woodstock, for sale cheap. Apply to

C. DENNE, Newmarket.

TENDERS

WILL BE RECRIVED FOR THE FOLLOWING

House on Gloucester Street, Alterations on Carlton Street, Block of Stores on College Street, Stable on Sherbourne Street.

Apply to GEO, M. MILLER, Architect, Corner Queen & Yonge Sts., Toronto.



NOTICE TO CONTRACTORS.

Tenders will be received by registered post, addressed to the City Engineer, up to 12 o'clock noon of the 81n DAY OF APRIL, 1890, for the construction of the following works:—Cedar block pavements—Peter street, from King street to Queen street; John street, from King street to Queen street; Morris street, from Spadina ave. to Huron street; Roxboro' street, from Yonge street casterly; Virtue street, from Sorauren ave. to East terminus. Scoria block pavement—Sherbourne street, from King street to Queen street. Grading—Sylvan avenue, from Dufferin street. Plans can be seen, quantities and forms of tender obtained on and after Tuesday, the 1st day of April, 1890, at the City Engineer's office. A deposit in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 5 per cent. on the value of the work tendered for under \$1,000, and 21 per cent. over that amount, must accompany each and every tender, otherwise it will not be entertained. Tenders will be received by registered post, ad-

tender, otherwise it will not be entertained
All tenders must bear the bona fide signatures
of the contractor and his sureties (see specifications) or they will be ruled out as informat.
The Committee do not bind themselves to

accept the lowest or any tender.

JOHN SHAW. Chairman Committee on Works.

Committee Rooms, Toronto, March 26th, 1800.

Prices of Building Materials.

CAR OR CARGO LOTS.

1% and thicker clear picks, Am. ins	\$30 000	332 00
1 % and thicker, three uppers, Am ins.		37 00
t and thicker, pickings, Am ins		27 00
1 x 10 and 12 dressing and better	18 ∞	20 00
1 × 10 and 12 mill run	13 ∞	14 00
I x to and is dressing	14 00	16 00
1 × 10 and 12 common	12 00	13 00
1 × 10 and 12 spruce culls		11 ∞
1 X to and 12 maple culls		900
I tuch clear and picks	28 ∞	30 €
r inch dressing and better	18 ∞	20 00
t inch siding, mill run	14 00	15 00
z inch siding, common	11 00	12 90
z inch ziding, ship culls		11 00
z inch siding, mill culls	8 ∞	9∞

Cull scantling	8 ∞	900
1 % and thicker cutting up plank	33 00	25 00
Cull scantling 1 % and thicker cutting up plank 1 inch strips, 4 in. to 8 in. mill tun	14 00	15 00
i inch strips, common i inch strips, common i inch stooring i inch stooring XXX shingles, sawn XX shingles, sawn	11 00	12 00
1 K inch flooring	14 00	15 00 16 00
XXX shingles, sawn	14 00	10 00
XX shingles, sawn. Eastlake galvanized steel thingles, 24 W. G., per square. Eastlake galvanized steel shingles, 26 W. G., per square. Eastlake painted steel shingles, per sq. Round pointed galvanized steel shingles, per sq. Round pointed painted steel shingles, Round pointed painted steel shingles, Round pointed, unpainted, Terne tin shingles. Manitoba galvanized, steel siding, per square.	2 30 1 30	(t 2 35 1 35
Eastlake galvanized steel shingles, 24		. 30
W. G., per square		6 00
Eastlake galvanized steel shingles, 26		
W. G., per square		5 50
hastlake painted steel shingles, per sq.		4 00
Round pointed galvanized steel		
Round pointed painted steel shipples		6 00
Round pointed unnainted Terms tin		4 25
shingles		4 00
Manitoba galvanized, steel siding, per		4 00
square		5 00
Manitoba painted steel siding, per sq.		5 00 3 50
square		3 50
l'ainted crimped steel sheeting		3 40
Painted crimped steel sheeting. Price of Copper shingles according to w	eight.	
VAND QUOTATIONS.		
Mill cull boards and scantling Shipping cull boards, promiscuous		10 00
Shipping cull boards, promiscuous		
Shipping cull hoards, promiscuous widths Shipping cull boards, stocks Hemlock cantling and joist up to 16 ft.		13 00
Shipping cult boards, stocks		14 Oct
riemlock cantling and joist up to 16 ft.	11 00	12 00
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Scantling and joist, up to 16 ft	13 00	14 00
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11 11 20 ft		15 00 16 00
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		33 00
Cutting up planks, 11/4 and thicker, dry	25 00	35 OC 26 CO
u u board.	18 00	22 00
Cedar for block paving, per cord		5 00
Cedar for block paving, per cord Cedar for Kerbing, 4 x 14, per M		14 00
n. M.		
1½ inch flooring, dressed, F. M	28 oo	12 00
136 inch flooring rough, B. M	18 00	32 00 22 00
134 " dressed, F. M	32 00	28 00
undressed, B. M	25 00 18 00	19 00
ureseu	18 00	22 00
	13 00	15 00 35 00 12 00
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YYY camp chingles per M .4.5-		13 00
	3.0	5 2 75 2 20
Red oak	30 00	2 20
Red oak	30 00	40 00
White	75 ∞ 18 ∞	45 00
Cherry, No. 1 and 2		
	70 OO	70 ∝
White ash, No. 1 and 2	75 00	25 OO
Black ash, No. 1 and 2	50 00	30 00
Dressing stocks	16 00	22 00
Picks, American inspection		40 00
Three uppers, American inspection		
		50 ∞
BRICK—¥ M		
Common Walling		\$ 7 50
Good Facing		
Good Facing	•	9 32
Sewer	•	9 00
Pressed Brick:		

Plaln brick, f. c. b. at Milton, per M...

and quality, per M......

Ornamental brick, at Milton, per 100... \$3 to 10 00

\$18 00

Alone:	INDEX TO ADVERTISEMENTS	Hedges & Lankin	vii
Common Rubble, Per Toise, delivered Large flat " " 18 00 Foundation Blocks, " Cubic Foot 35	INDEA TO ADVENTIBLEMENTO IN THE CANADIAN ARCHITECT AND BUILDER.	Ormsby, A. B. Tucker & Dillon.	vii vii
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